

2017: Registered Interests on Titled Land (RITL) Benchmark Project



Overview

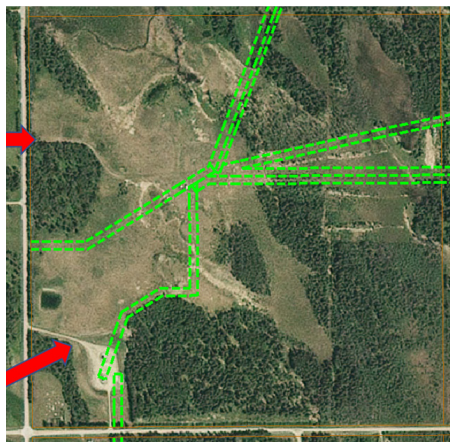
The RITL concept is described as the visualization of interests present on an Alberta Land Title certificate which has a spatial reference including Caveats, Right of Ways, Restricted Covenants and Easements, Discharges, Surface Rights, and Rights of Entry. There is currently no spatial record of surface activities (interests) on private lands unless they are shown on registered plans of survey.

In 2017, MNC completed a Benchmark Project using Esri (ArcGIS) software, which proved the viability of the RITL mapping initiative.

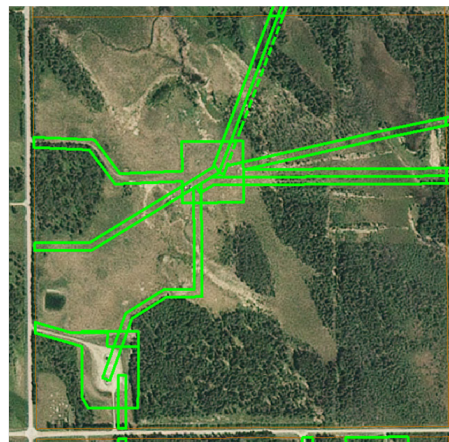
Challenge

There is no spatial record of surface activities (interests) on private lands unless they are shown on registered plans of survey. Industry requires a dataset showing the spatial extents of Caveats, Right of Ways, Restricted Covenants and Easements, Discharges, Surface Rights, and Rights of Entry.

Landscape changes beyond survey plans can be seen in the ground scars



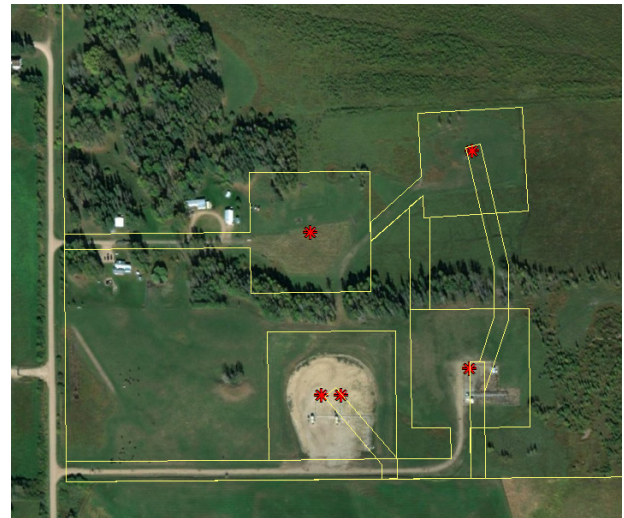
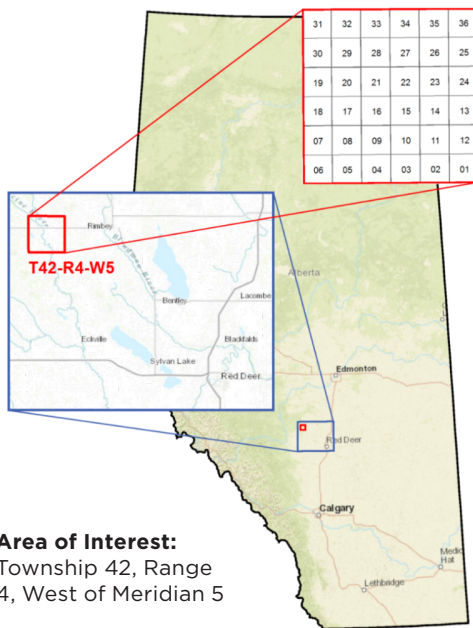
Cadastral Data



Cadastral Data and RITL Interests

Solution

For this benchmark project, all caveats, utility rights of ways, restricted covenants and easements were mapped within a single Alberta township. The intent was to develop a baseline mapping representation to enable further engagement and discussion with end users. It has since been used to support engagement in discussions with Government and industry stakeholders.



Alberta Energy Regulator (AER) Well Data shown with Mapped (RITL) Interests. The red points represent AER well data and the yellow lines represent the extent of the interest (RITL) mapped in the benchmark project.

Result

By developing a baseline mapping representation to enable further engagement and discussion with end users; (Alberta Data Partnerships) ADP has effectively used this Benchmark Project to support engagement in discussions with government, municipal, and industry stakeholders.

2018: Registered Interests on Titled Land (RITL)- Discovery Report

Challenge

Following the successful completion of the benchmark study and two APD hosted stakeholder sessions, it was found that additional research into the creation and utilization of mapping data similar to that of the proposed RITL product would be valuable.

Solution

MNC completed a Discovery Report in 2018 to address questions and concerns that arose from the RITL Benchmark Project completed in 2017. The Discovery Report included face-to-face interviews and phone meetings with two Government of Alberta (GoA) departments and seven industry corporations, including the Alberta Energy Regulator (AER).

The purpose of the report was to:

- Identifying GoA, AER and industry processes related to RITL
- Provide clarity for future mapping with respect to registered interests such as caveats and easements
- Identify areas of possible cross over or collaboration with existing applications and mapping agencies

Result

Interviewees identified several benefits of having a RITL data product, including:

- Reducing duplication of data to significantly increase efficiency and drastically decrease cost for data compilation across all sectors.
- Visualization of interests on the land that does not currently exist for Titled Land and can facilitate simpler communication.
- Broad access to a common, authoritative and accurate dataset that will improve engagement with stakeholders and partners.

Support of RITL

“Very interested”

Alberta Energy Regulator (AER)

“Definitely use [RITL data] to gather information”

ATCO Electric

“Supports better purchasing decisions”

Alberta Infrastructure

“The ability to identify crossings would be a benefit”

Plains Midstream Canada

“Would definitely become an end user of the data”

Alberta Municipal Affairs

“Would use RITL data for initial planning”

Repsol Canada

“Allows leases to be visualized”

AltaLink

“Greatly beneficial”

“Would support the Surface Land team”

Suncor Energy

2021: Registered Interests on Titled Land (RITL) Pilot Project

Overview

In 2021, MNC completed a Pilot Project whose objective was to have a plan in place to roll out Registered Interest on Titled Land (RITL) mapping for all Titled Lands in Alberta.

Challenge

A RITL dataset did not exist and therefore this pilot project was created to develop a baseline report to enable further engagement with end users. This project was created to identify the concerns with creating a provincial RITL dataset.

Solution

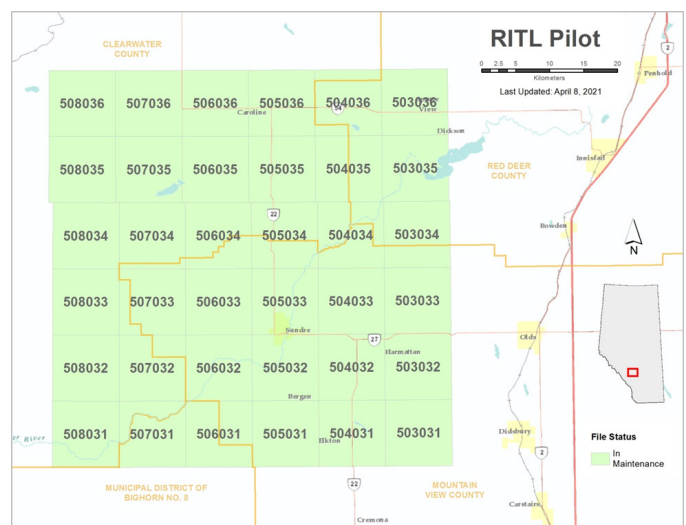
For this project, all Registered Interests on Titled Land were mapped using Bentley (MicroStation) software or categorized within 36 Alberta townships. Recommendation and Mapping & Maintenance Report were produced which included:

- A geographical plan for incremental mapping to complete mapping the remainder of the province
- Costing, timeline and mapping maintenance estimates to complete the remainder of the province

Result

This project confirmed that data sources and mapping methods are available to support a successful provincial scale RITL Mapping Program.

The process of mapping over 1300 registered interests on title land provided insight into considerations for a province wide dataset.



Pilot Area

2022: Registered Interests on Titled Land (RITL) - AER Data Integration Report

Overview

A recommendation coming out of the 2021 Pilot Project was to examine data sources that could be disseminated through a province-wide RITL mapping program.

Challenge

AER needed a tactical report to take action based on 2021 Pilot Project results and recommendations.

Solution

- The 2022 report examined the Alberta Energy Regulator (AER) data collection process through OneStop to determine what could be disseminated. The objective was to examine source data opportunities (beyond AER) and determine what could actually be disseminated. The goal was to ascertain if and how a province-wide RITL mapping program could be supported by existing source data and to what degree.
- The project was comprised of a research phase which consisted of meetings and action items coming out of those meetings. A summary of the research findings was compiled in a report.

The report included the following:

- Description of the current OneStop process components relevant to RITL
- Description of how AER data could support a RITL mapping build
- Description of how AER data could support RITL mapping maintenance
- Description of technical scenarios for AER data integration in a RITL mapping program
- Description of the benefits and obstacles to AER data integration
- Description of effort to implement an AER data integration process
- Next Step recommendations
- Appendixes for the research data as applicable

Result

A report was created that summarized the AER Data collection process through OneStop to determine what data could be disseminated through to a province-wide RITL mapping program. The report also included findings on if and how a province-wide RITL mapping program could be supported by AER's data collection, and to what degree along with some recommendations and next steps.

It was determined that A RITL mapping program is the next natural evolution for datasets managed under ADP. However, the cost and timeline of a traditional mapping approach (used for Title mapping) seemed to be unworkable simply due to the large volumes of interests to be mapped.



About MNC

MNC is the expert in the compilation and maintenance of cadastral and parcel mapping. Providing clients with practical and innovative data collection, mapping and geomatics solutions related to surveyed land information.

